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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/751,270	12/30/2003	Saikumar Jayaraman	884.888US1	7480	
21186 7590 05/31/2007 SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. P.O. BOX 2938			EXAMINER		
			TSOY, ELENA		
MINNEAPOLIS, MN 55402			ART UNIT	PAPER NUMBER	
			1762		
			MAIL DATE	DELIVERY MODE	
			05/31/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
10/751,270	JAYARAMAN, SAIKUMAR		
Examiner	Art Unit		
Elena Tsoy	1762		

	Elena Tsoy	1762				
The MAILING DATE of this communication appe	ars on the cover sheet with the c	orrespondence add	ress			
THE REPLY FILED <u>02 May 2007</u> FAILS TO PLACE THIS APP	LICATION IN CONDITION FOR AL	LOWANCE.				
1. The reply was filed after a final rejection, but prior to or on this application, applicant must timely file one of the follow places the application in condition for allowance; (2) a No a Request for Continued Examination (RCE) in compliance time periods:	ving replies: (1) an amendment, aff tice of Appeal (with appeal fee) in o	idavit, or other evider compliance with 37 C	ice, which FR 41.31; or (3)			
a) The period for reply expires 3 months from the mailing date						
The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.						
Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).						
Extensions of time may be obtained under 37 CFR 1.136(a). The date nave been filed is the date for purposes of determining the period of exunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b) NOTICE OF APPEAL	tension and the corresponding amount shortened statutory period for reply origi than three months after the mailing da	of the fee. The appropri inally set in the final Office	ate extension fee ce action; or (2) as			
2. The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exte a Notice of Appeal has been filed, any reply must be filed AMENDMENTS	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of th	ns of the date of e appeal. Since			
3. The proposed amendment(s) filed after a final rejection,	but prior to the date of filing a brief	will not be entered by	acausa			
(a) They raise new issues that would require further co			coausc			
(b) They raise the issue of new matter (see NOTE belo		,,				
(c) ☐ They are not deemed to place the application in bet appeal; and/or	ter form for appeal by materially re	ducing or simplifying	the issues for			
(d) They present additional claims without canceling a NOTE: (See 37 CFR 1.116 and 41.33(a)).	corresponding number of finally rej	ected claims.				
The amendments are not in compliance with 37 CFR 1.1.	21. See attached Notice of Non-Co	mpliant Amendment	PTOL-324).			
5. Applicant's reply has overcome the following rejection(s)						
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 		timely filed amendme	nt canceling the			
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is proposed. The status of the claim(s) is (or will be) as follows:		ll be entered and an e	explanation of			
Claim(s) allowed:						
Claim(s) objected to:						
Claim(s) rejected: Claim(s) withdrawn from consideration:						
AFFIDAVIT OR OTHER EVIDENCE						
B. The affidavit or other evidence filed after a final action, bu because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e).						
The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary	vercome all rejections under appea	al and/or appellant fai	ls to provide a			
I.O. ☐ The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER	n of the status of the claims after e	ntry is below or attach	ed.			
The request for reconsideration has been considered busee attached.	t does NOT place the application in	n condition for allowar	ice because:			
2. Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s)						
3. ☑ Other: <u>PTO-892</u> .						
			•			

Advisory Action

The Request for Reconsideration filed on May 2, 2007 has been considered but is not deemed to place the application in condition for allowance for the reasons of record set forth in the Final Office Action mailed on 3/14/2007.

Response to Arguments

- 9. Applicants' arguments filed April, 2007 have been fully considered but they are not persuasive.
- (A) Applicant traverses the rejection of Claim 9 under 35 USC § 112, second paragraph because claim 9 teaches text from specification.

The Examiner respectfully disagrees with this argument. It is well settled that although the claims are interpreted in light of the specification, **limitations from the specification are**not read into the claims. See In re Van Geuns, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

(B) Applicant requests citation to an asserted reference to support the Office assertion that "the testing of a metallized substrate can be done either in situ or after separating it from its lay out."

The following prior art the Office statement:

Sugai (US 5440231) teaches in-line testing of non-singulated packaged semiconductor devices (See column 6, lines 14-21) although most semiconductor device manufacturers do not test the packaged semiconductor devices until after they have been singulated (See column 1, lines 24-26).

Suda et al (US 4731855) is cited to show that a method of inspecting in the course of a production line without taking out the semiconductor device from the line; that is, a process <u>in-line test</u> it is well known in the art (See column 1, lines 50-57).

Kamieniecki et al (US 5661408) show real-time in-line testing of semiconductor wafers (See column 1, lines 5-9).

(C) Applicant arguets that Cobbley's in situ test is not on the substrate as claimed. Rather, Cobbley's in situ test is on dice, e.g. die 48 and die 48 as illustrated in Fig. 5. This is made clear in the paragraph at column 3 of Cobbley, beginning at line 19.

The Examiner respectfully disagrees with this argument. Cobbley is a <u>secondary</u> reference which is relied upon to show that semiconductor assemblies, each including integrated circuit (IC) dice and an <u>associated substrate</u>, are electrically tested before encapsulation using an in-line or *in-situ* test socket or probes at a die-attach station (See Abstract). In other words, Cobbley is cited to show that in-line or in-situ testing is known in the art. Therefore, it would be obvious to test semiconductor assemblies in situ with the expectation of providing the desired fast production since in-line testing of semiconductor assemblies together with *associated* substrate is known in the art, as evidenced by Cobbley.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elena Tsoy whose telephone number is 571-272-1429. The examiner can normally be reached on Monday-Thursday, 9:00AM - 5:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ELENA TOOY

PHIMARY EXAMINER

Elena Tsoy Primary Examiner Art Unit 1762

May 29, 2007